KE-5000 E

CASSETTE CAR STEREO WITH AM/FM ELECTRONIC TUNER

KE-5300 E

CASSETTE CAR STEREO WITH LW/MW/FM ELECTRONIC TUNER

SERVICE MANUAL

Subject:
For Cassette Mechanism, refer to the Service Manual of unit number CX-100A/P.

SPECIFICATIONS

General

Power source ..... DC14.4V (10.8~15.6V allowable)
Grounding system ..... Negative type
Max. current consumption 1.3A
Power output (max.) ..... 6.5W + 6.5W
(continuous) ..... 4.5W + 4.5W
(1% dist. at 1 kHz)
Loudness contour ..... +12 dB (100Hz),
(Volume: −30 dB) +4 dB (10kHz)
Load impedance ..... 4Ω (2~8Ω allowable)
Dimensions (W × H × D) ..... 180 × 50 × 150 mm
Nose size (W × H × D) ..... 105 × 42 × 16 mm
Shaft interval ..... 130 mm
Weight ..... 1.7 kg

Tape player

Tape ..... Compact cassette tape (C-30~C-90)
Tape speed ..... 4.76 cm/sec.
(+0.19 cm/sec. −0.05 cm/sec.)
Fast forward/rewind time ..... Within 100 sec. for C-60
Wow & flutter ..... No more than 0.2% (WRMS)
Frequency response ..... 50~12,000Hz (±3 dB)
Stereo separation ..... More than 40 dB
Signal-to-noise ratio ..... More than 45 dB

FM tuner

Frequency range ..... 87.5~108MHz
Usable sensitivity ..... 12 dBf (1.1μV/75Ω)
50 dB quieting sensitivity ..... 17 dBf (1.9μV/75Ω)
Signal-to-noise-ratio ..... 60 dB
Selectivity ..... 70 dB (±400kHz)
Distortion ..... 0.5% (at 65 dBf, 1 kHz, stereo)
Frequency response ..... 50~12,000Hz (±3 dB)
Stereo separation ..... 35 dB (at 65 dBf, 1 kHz)

AM (MW) tuner

Frequency range ..... 531~1,602kHz
Usable sensitivity ..... 30μV (29.5 dB) (S/N: 20 dB)
Selectivity ..... 30 dB (±9kHz)

LW tuner (KE-5300)

Frequency range ..... 155~281kHz
Usable sensitivity ..... 70μV (37 dB) (S/N: 20 dB)
Selectivity ..... 35 dB (±9 kHz)

Note:
Specifications and the design are subject to possible modification without notice due to improvements.

PIONEER®

2. ADJUSTMENT

2.1 FM IF ADJUSTMENT

- **Connection Diagram**

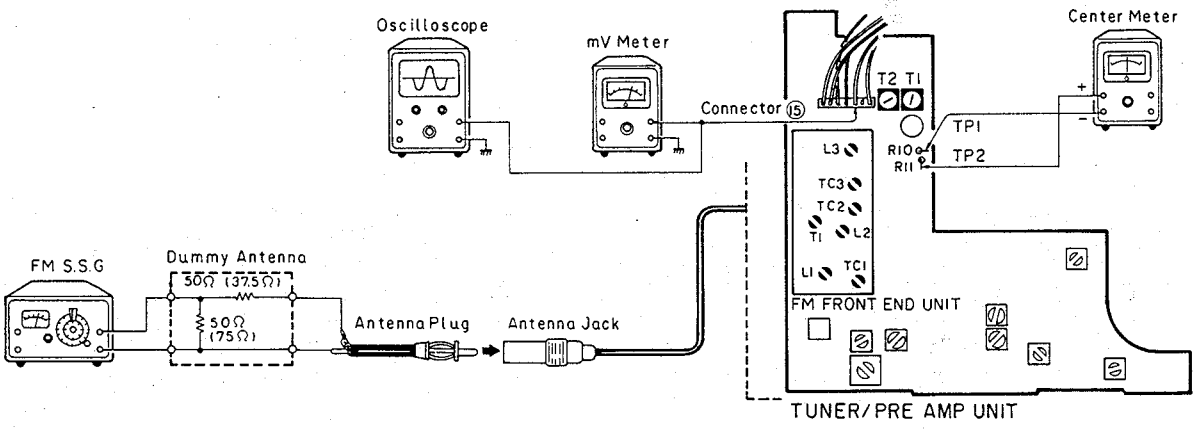


Fig. 3

- **To Adjust**

1. Add input signal of zero from SSG and adjust T1 (Tuner/Pre Amp Unit) so that the pointer of center meter (use one graduated for over 200μA) will come to the center.
2. Set SSG to 100% modulation at 400Hz, and apply an output signal of 98MHz, 60 dB.
3. Adjust T2 so that separated signals will have but a minimum distortion.

2.2 FM TRACKING ADJUSTMENT

- **Connection Diagram (Shown in Fig. 3.)**
- **To Adjust**

SSG Frequency	Pointer Position	Adjustment Point	Note
1. 87.5MHz (400Hz, 100% modulation), output level 8 dB (μV)	Minimum	L3	87.5MHz can be received
2. 108MHz (400Hz, 100% modulation), output level 8 dB (μV)	Maximum	TC3	108MHz can be received
3. Repeat items (1) and (2) alternately so that brodcast can be received at the frequency between 87.5MHz and 108MHz.			
4. 89.9MHz (400Hz, 100% modulation), output level 5 dB (μV)	Tuned position	L1, L2	Maximum output
5. 106.1MHz (400Hz, 100% modulation), output level 5 dB (μV)	Tuned position	TC1, TC2	Maximum output
6. Repeat items (4) and (5) alternately so that the mV meter indicates maximum output.			
7. 98.1MHz (400Hz, 100% modulation), output level 5 dB (μV)	Tuned position	T1	Maximum output

2.3 FM MPX ADJUSTMENT

- **Connection Diagram**

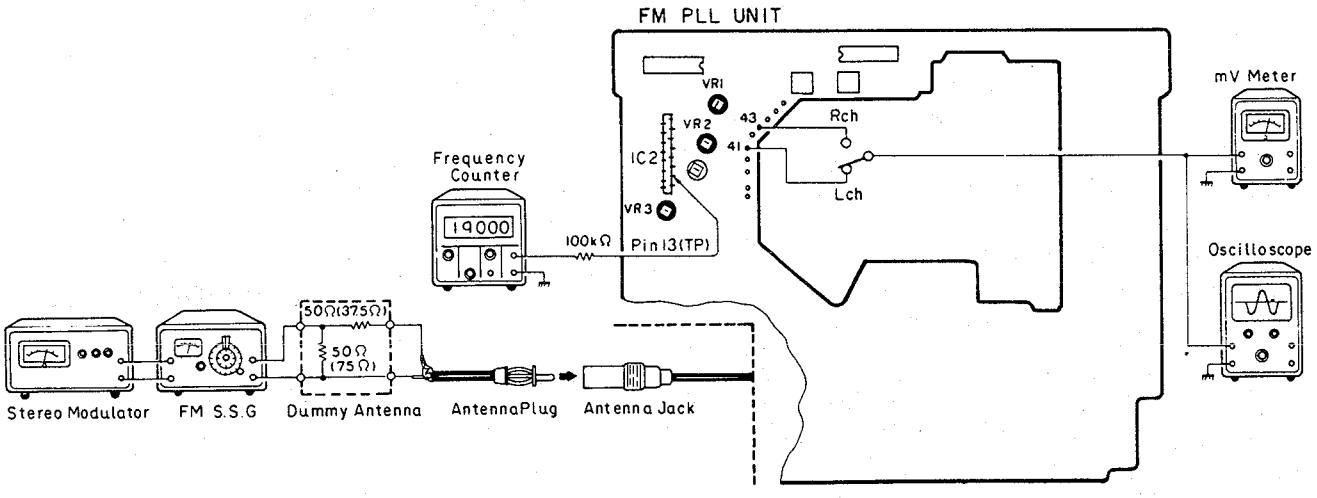


Fig. 4

- **To Adjust**

1. Select the band switch to AUTO position.
2. Obtain non-modulation signal by setting SSG output at 60 dB (μV) 98MHz. Adjust VR3 so that the frequency counter indicates 19kHz±30Hz.
3. Obtain stereo modulation signal by setting SSG output at 60 dB (μV). Adjust VR1 to secure maximum separation.

2.4 AUTO LEVEL ADJUSTMENT

• Connection Diagram (Shown in Fig. 4)

• To Adjust

1. Select the band switch to AUTO position.
2. Set SSG at 98MHz and tune using the tuning knob.
3. Set SSG to an output level of 20 dB (μV), and adjust VR2 to a separation of 5 dB (between the right and left channels).

2.5 AM IF ADJUSTMENT (KE-5000)

• Connection Diagram

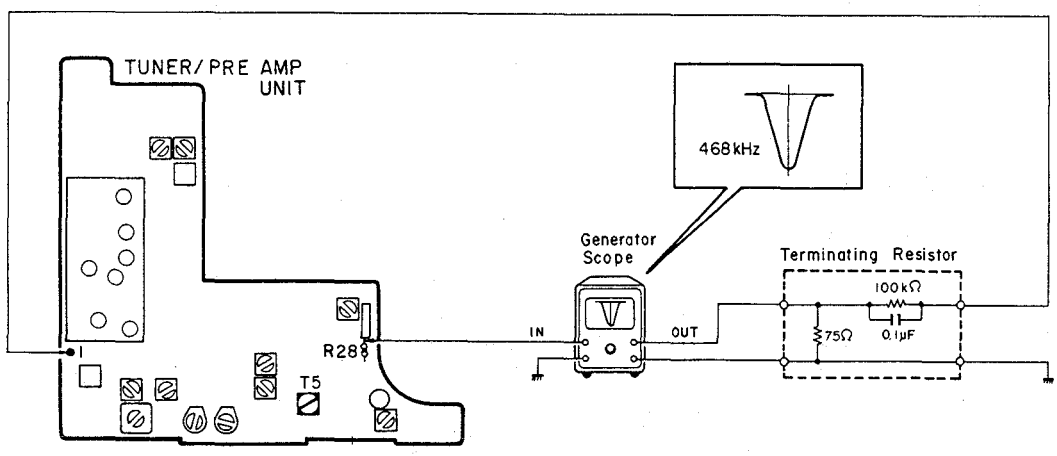


Fig. 5

• To Adjust

1. Set Generator Scope as follows:
   Frequency centering on sweep 468kHz
   Input level ..... 0.3 Vp-p/cm
   Output level ..... 3 mV~10 mV
2. Turn the core of T5 and adjust so that U-curve will be at maximum amplitude and best symmetry.

2.6 AM TRACKING ADJUSTMENT (KE-5000)

• Connection Diagram

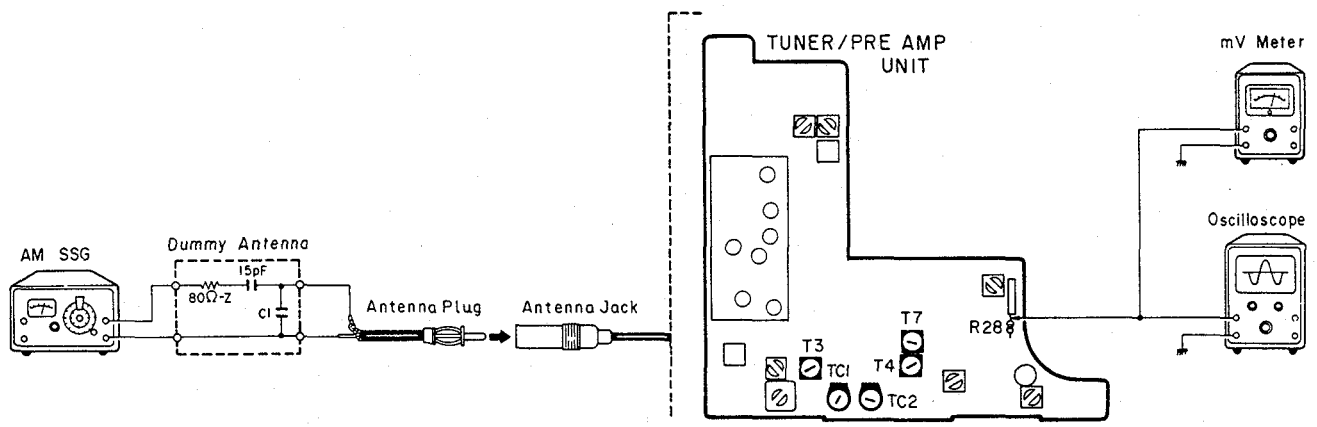


Fig. 6

NOTICE:
Select C1 so that total capacity of 80pF is attained from the direction of the receiver jack.
Z: Output impedance of the S.S.G.

• To Adjust

SSG Frequency	Pointer Position	Adjustment Point	Note
1. 1,602kHz (400Hz, 30% modulation), output level 30 dB (μV)	Maximum	T7	1,602kHz can be received
2. 531kHz (400Hz, 30% modulation), output level 30 dB (μV)	Minimum		Check if 531kHz can be received
3. 603kHz (400Hz, 30% modulation), output level 30 dB (μV)	Tune to 603kHz	T3, T4	mV meter at maximum
4. 1,395kHz (400Hz, 30% modulation), output level 30 dB (μV)	Tune to 1,395kHz	TC1, TC2	mV meter at maximum
5. Repeat items (3) and (4) alternately so that the mV meter indicates maximum output.			

2.7 MW/LW IF ADJUSTMENT (KE-5300)

• Connection Diagram

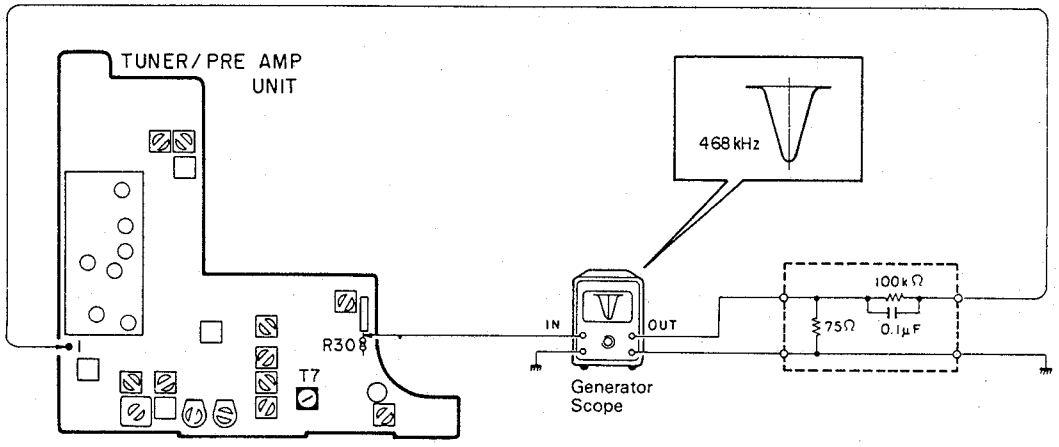


Fig. 7

• To Adjust

1. Set Generator Scope as Follows:
   Frequency centering on sweep . . . . . 468 kHz
   Input level. 0.3Vp-p/cm
   Output level. . . . . 3mV∼10mV
2. Turn the core of T7 and adjust so that U-curve will be at maximum amplitude and best symmetry.

2.8 MW/LW TRACKING ADJUSTMENT (KE-5300)

• Connection Diagram

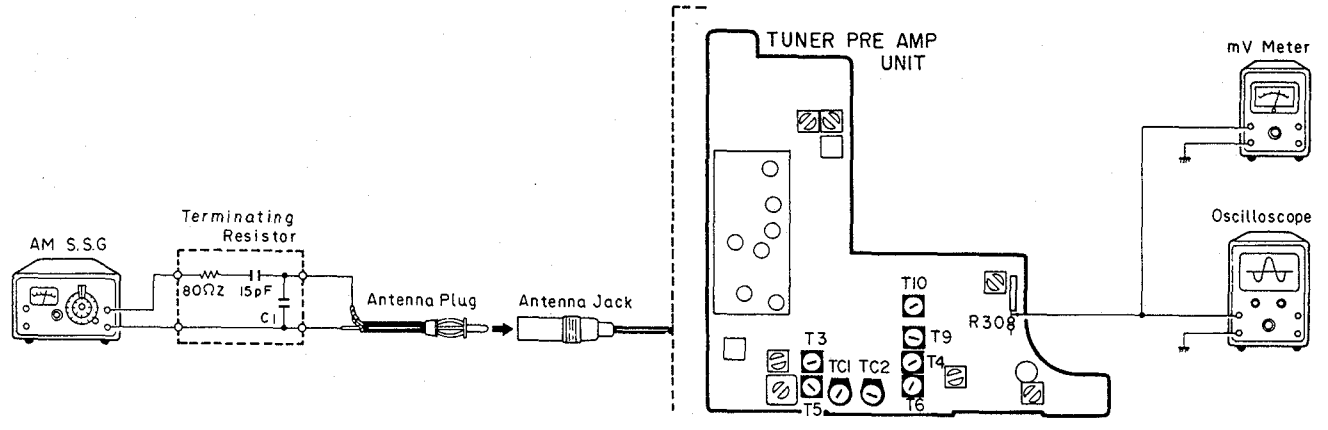


Fig. 8

NOTICE:
Select C1 so that total capacity of 80pF is attained from the direction of the receiver jack.
Z: Output impedance of the S.S.G.

• To Adjust

In case of MW

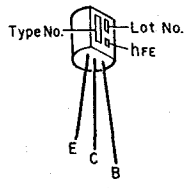
SSG Frequency	Pointer Position	Adjustment Point	Note
1. 1,602 kHz (400Hz, 30% modulation), output level 30 dB (μV)	Maximum	T9	1,602kHz can be received
2. 531kHz (400Hz, 30% modulation), output level 30 dB (μV)	Minimum		Check if 531kHz can be received
3. 603kHz (400Hz, 30% modulation), output level 30 dB (μV)	Tune to 603kHz	T3, T4	mV meter at maximum
4. 1,395kHz (400Hz, 30% modulation), output level 30 dB (μV)	Tune to 1,395kHz	TC1, TC2	mV meter at maximum
5. Repeat items (3) and (4) alternately so that the mV meter indicates maximum output.			

In case of LW

SSG Frequency	Pointer Position	Adjustment Point	Note
1. 155kHz (400Hz, 30% modulation), output level 40 dB (μV)	Tune to 155kHz	T10	155kHz mV meter at maximum
2. 281kHz (400Hz, 30% modulation), output level 40 dB (μV)	Tune to 281kHz	T5, T6	281kHz mV meter at maximum
3. Repeat (1) and (2) alternately and adjust so that broadcast can be received at the frequency between 155kHz and 281kHz.			

• IC's and Transistors

2SC1815
2SA1015
2SC1674
2SC945



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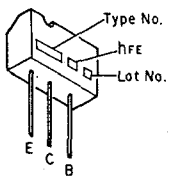
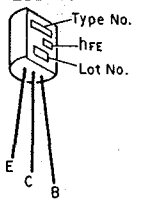
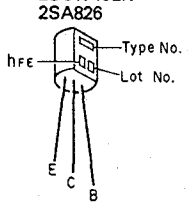
2SA786



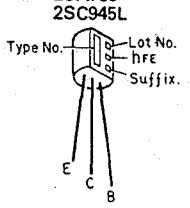
2SB562
2SD655



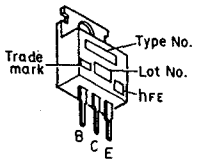
2SC1740LN
2SA826



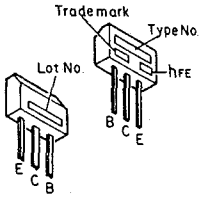
2SA733
2SC945L



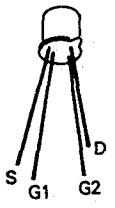
2SA671
2SC1061



2SC535
2SC460



SD306PA



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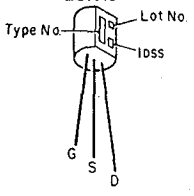
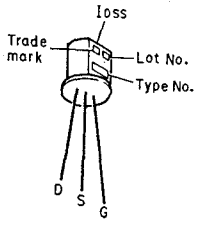
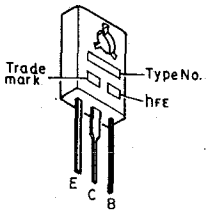


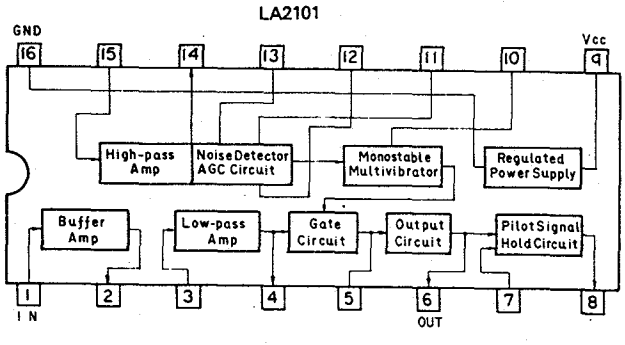
2SK19



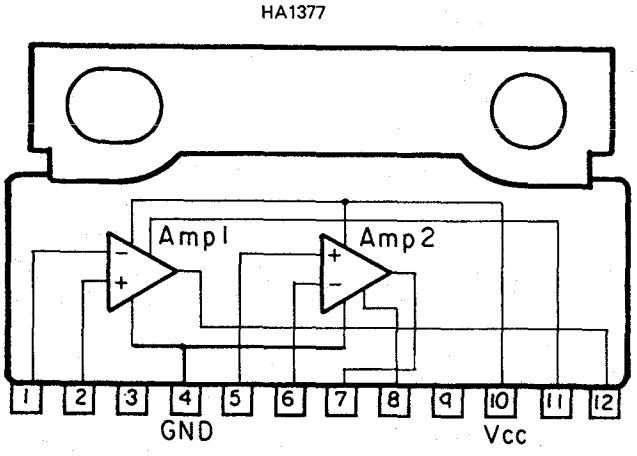
2SA715WT



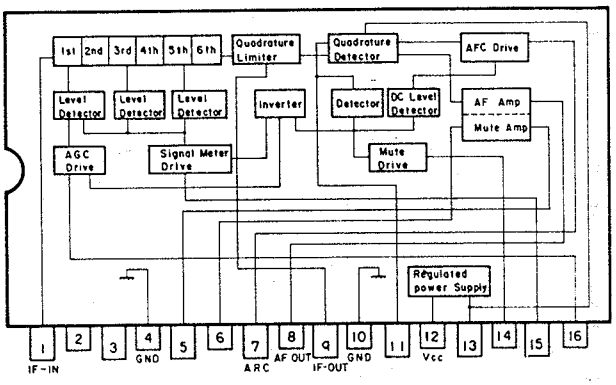
LA2101



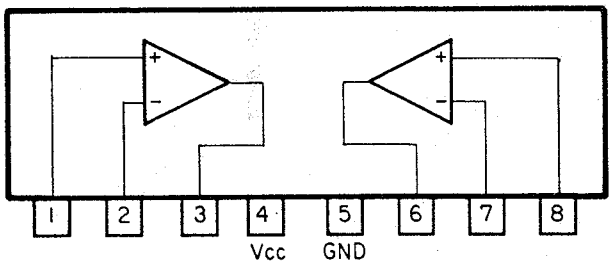
HA1377



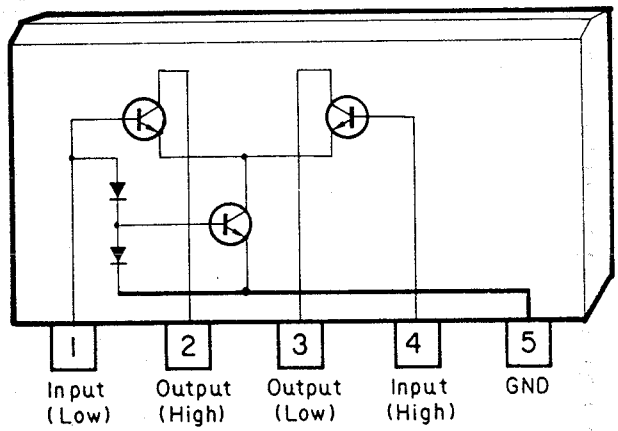
LA1140



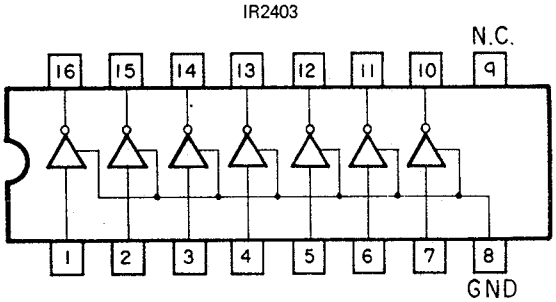
MB3106M



M5215L



IR2403



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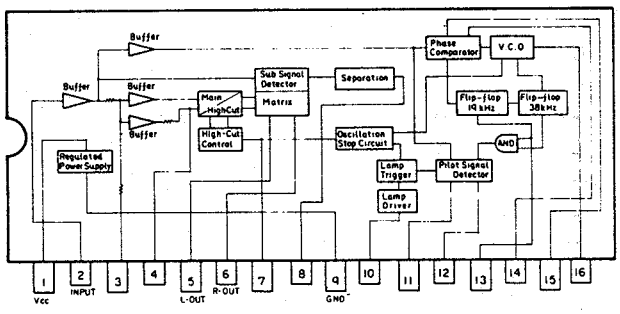

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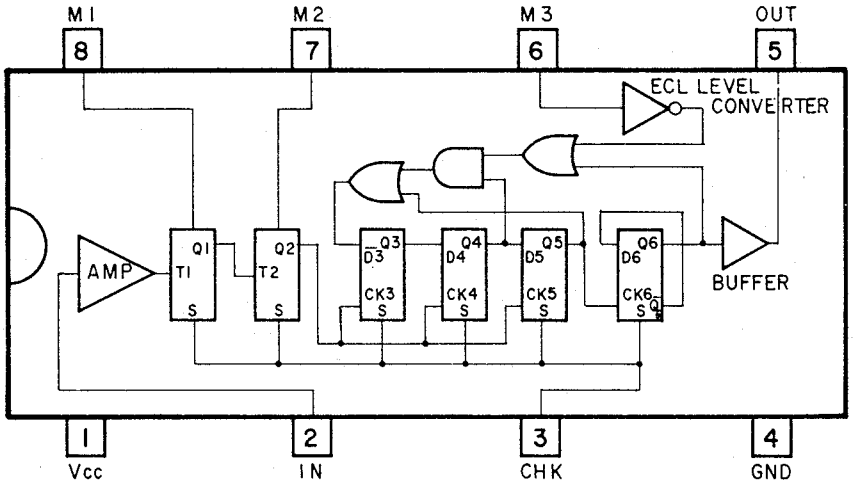
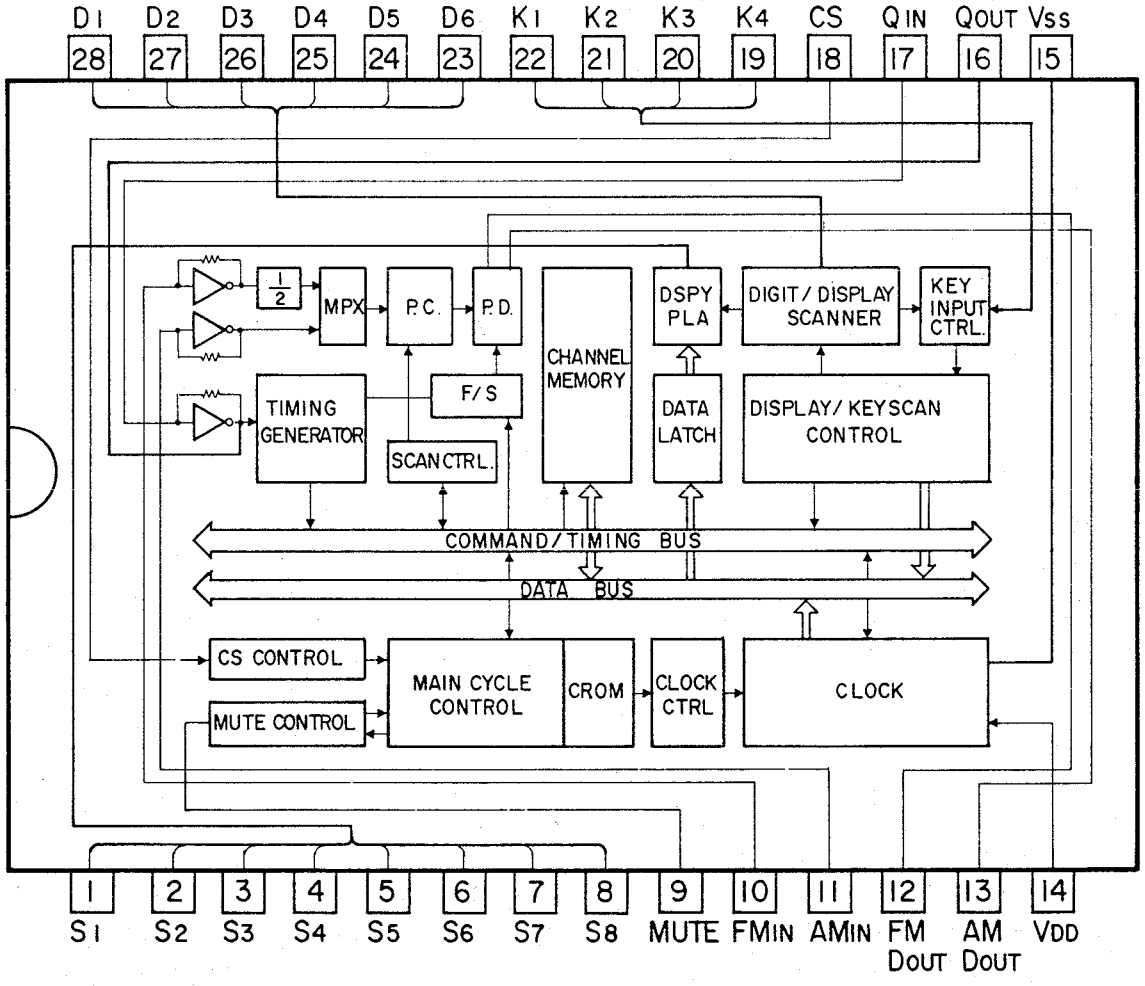
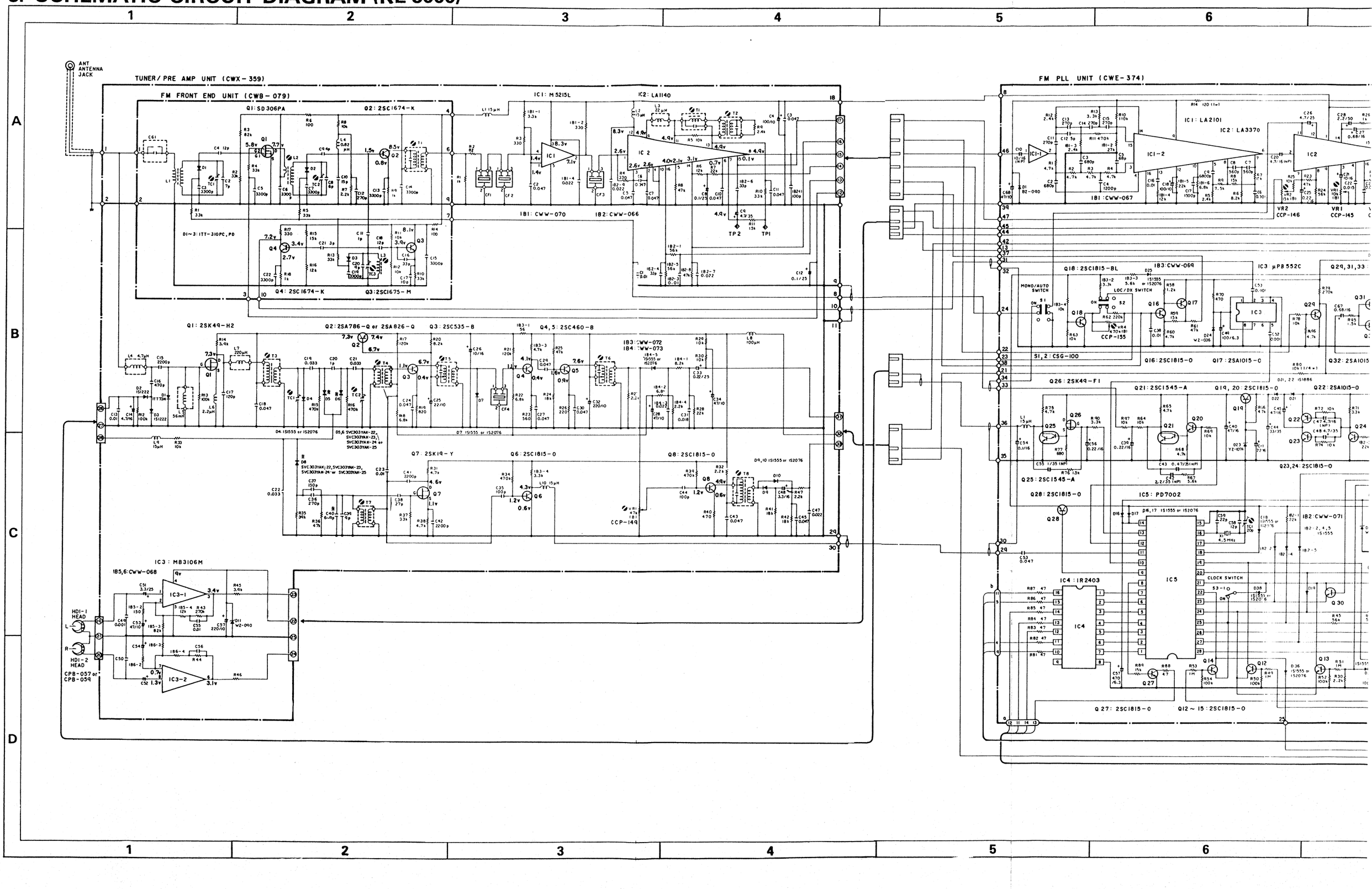


PD7002



3. SCHEMATIC CIRCUIT DIAGRAM (KE-5000)



KE-5000
KE-5300

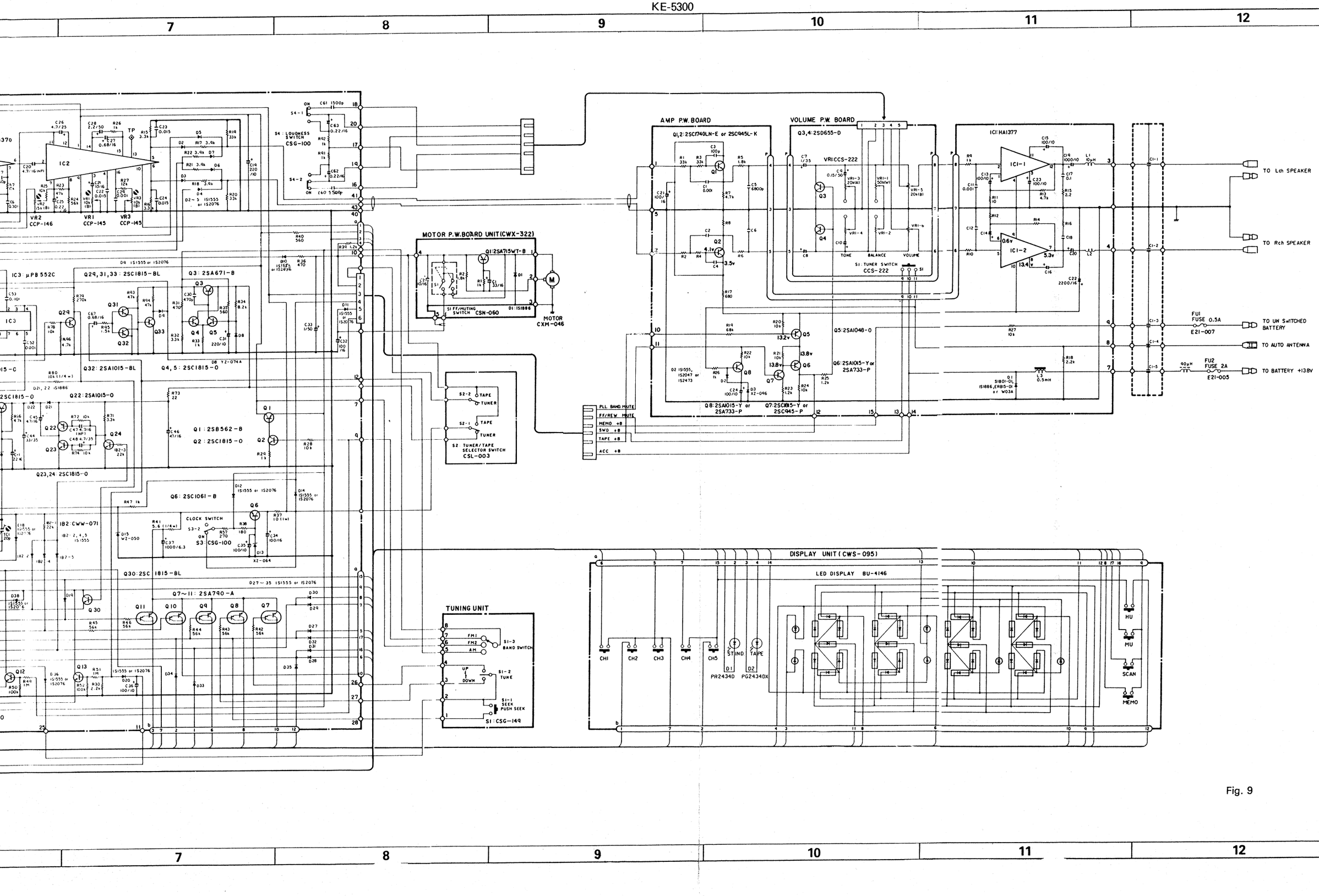
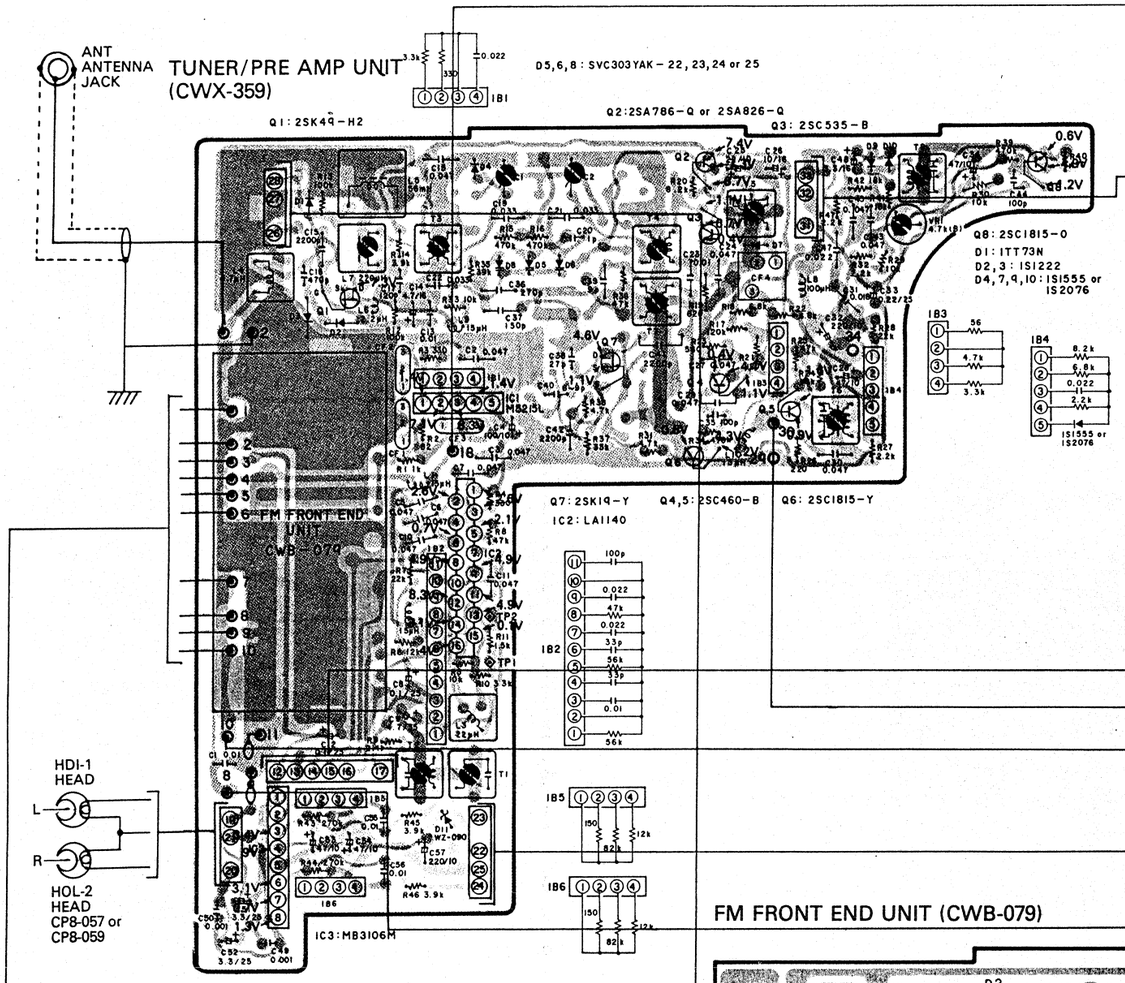
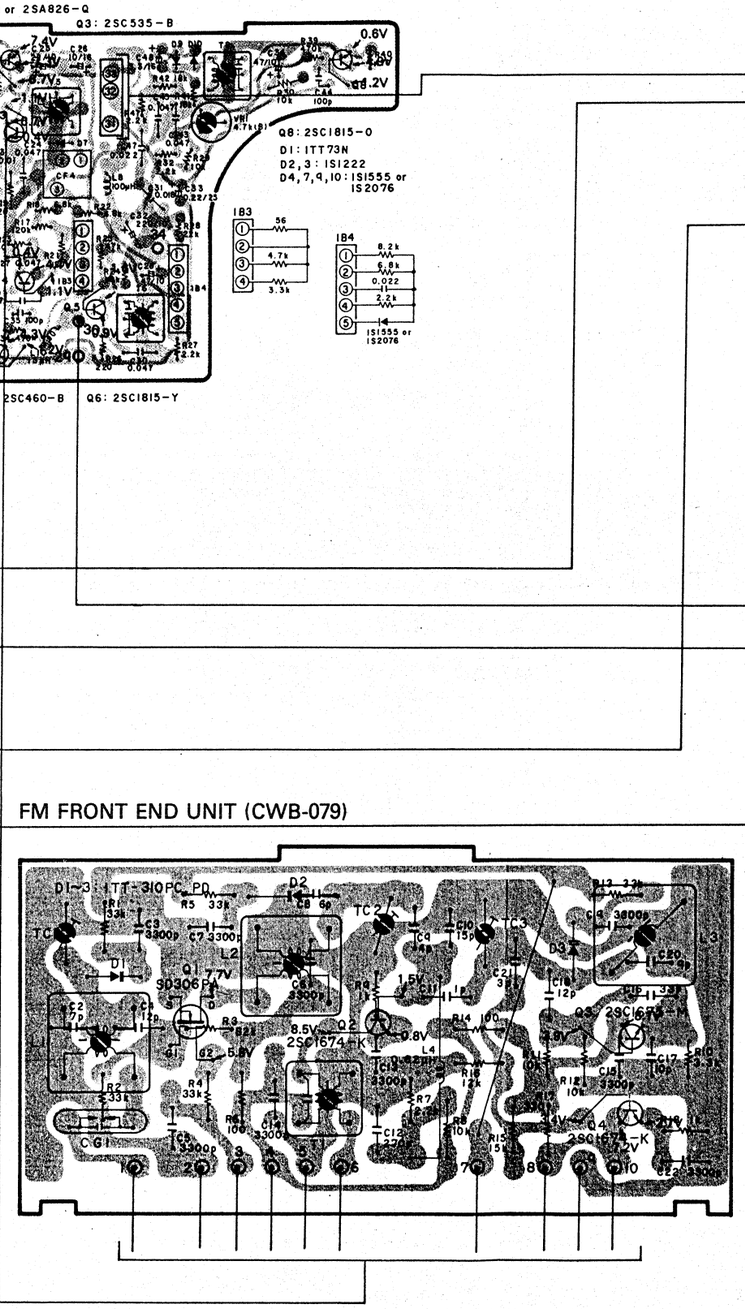
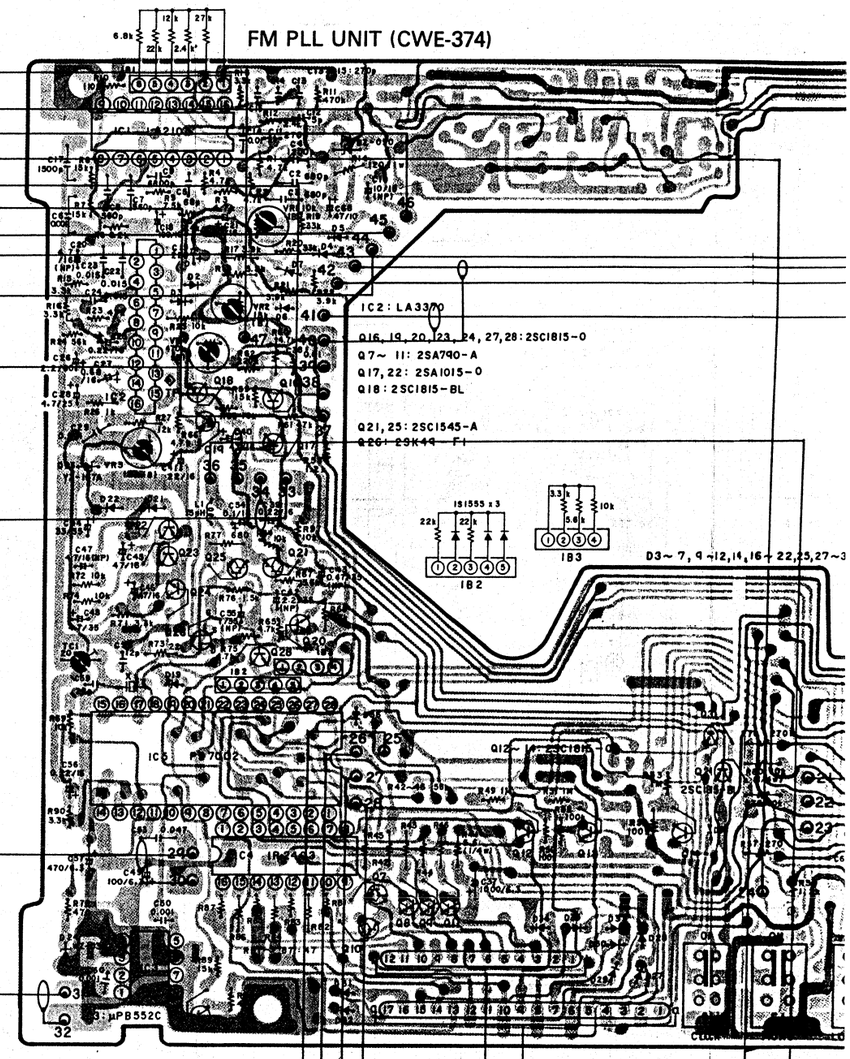


Fig. 9

4. CONNECTION DIAGRAM (KE-5000)







7 | 8 | 9 | 10 | 11 | 12

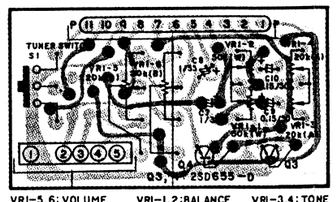
A

B

C

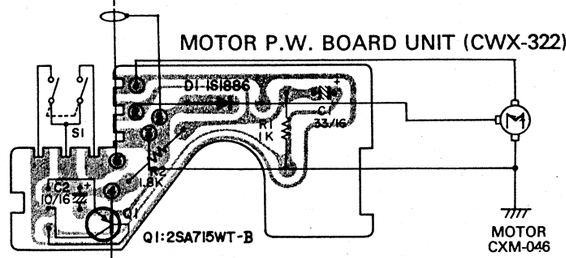
D

VOLUME P.W. BOARD

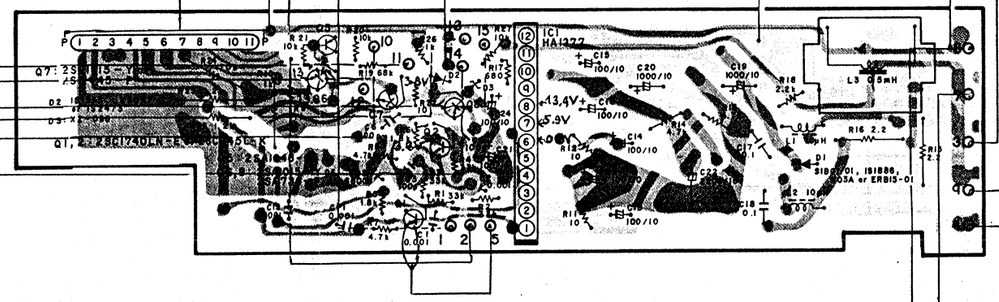


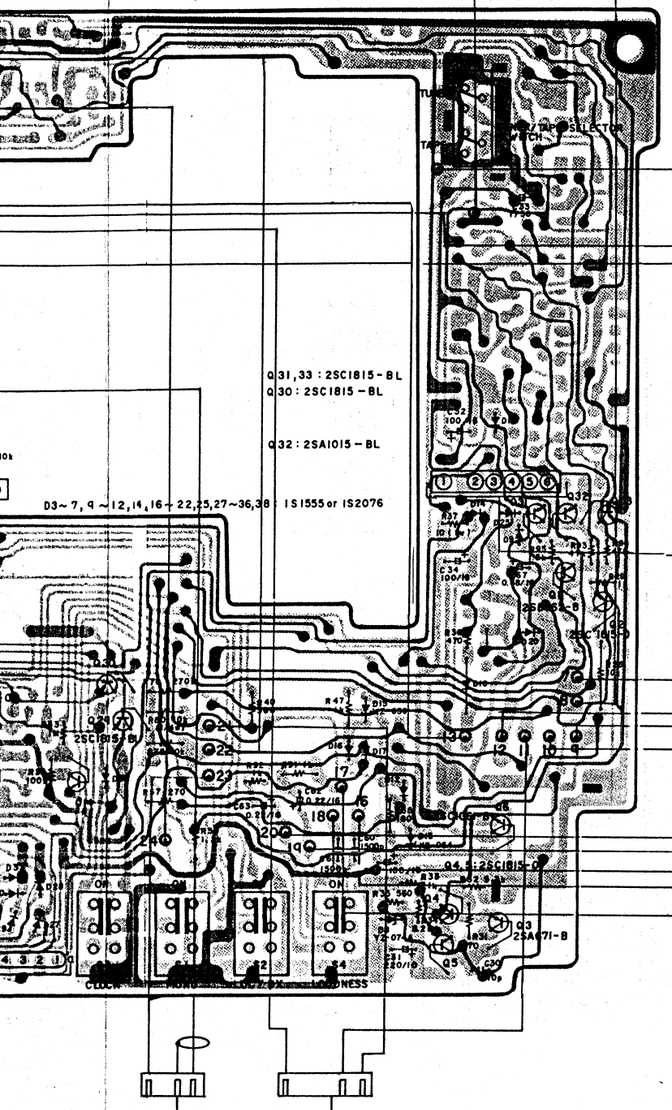
VRI-5,6: VOLUME VRI-1,2: BALANCE VRI-3,4: TONE

MOTOR P.W. BOARD UNIT (CWX-322)

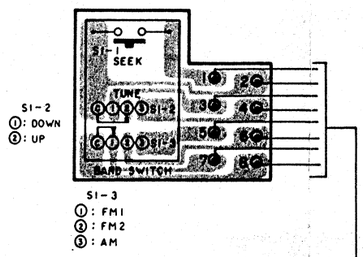


AMP P.W. BOARD





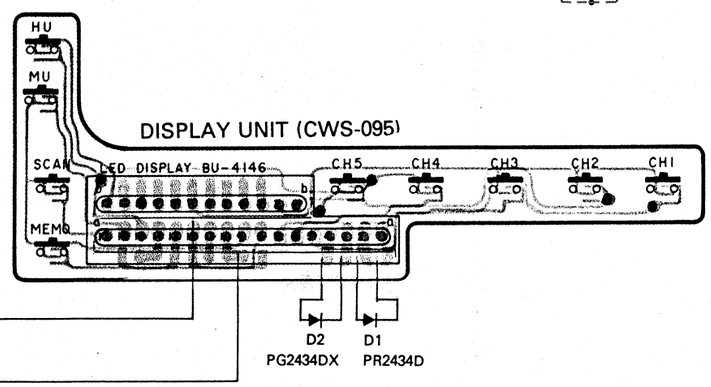
TUNING UNIT



S1-2
①: DOWN
②: UP

S1-3
①: FM1
②: FM2
③: AM

DISPLAY UNIT (CWS-095)



D2
PG2434DX

D1
PR2434D

CI-1 TO Lch SPEAKER

CI-2 TO Rch SPEAKER

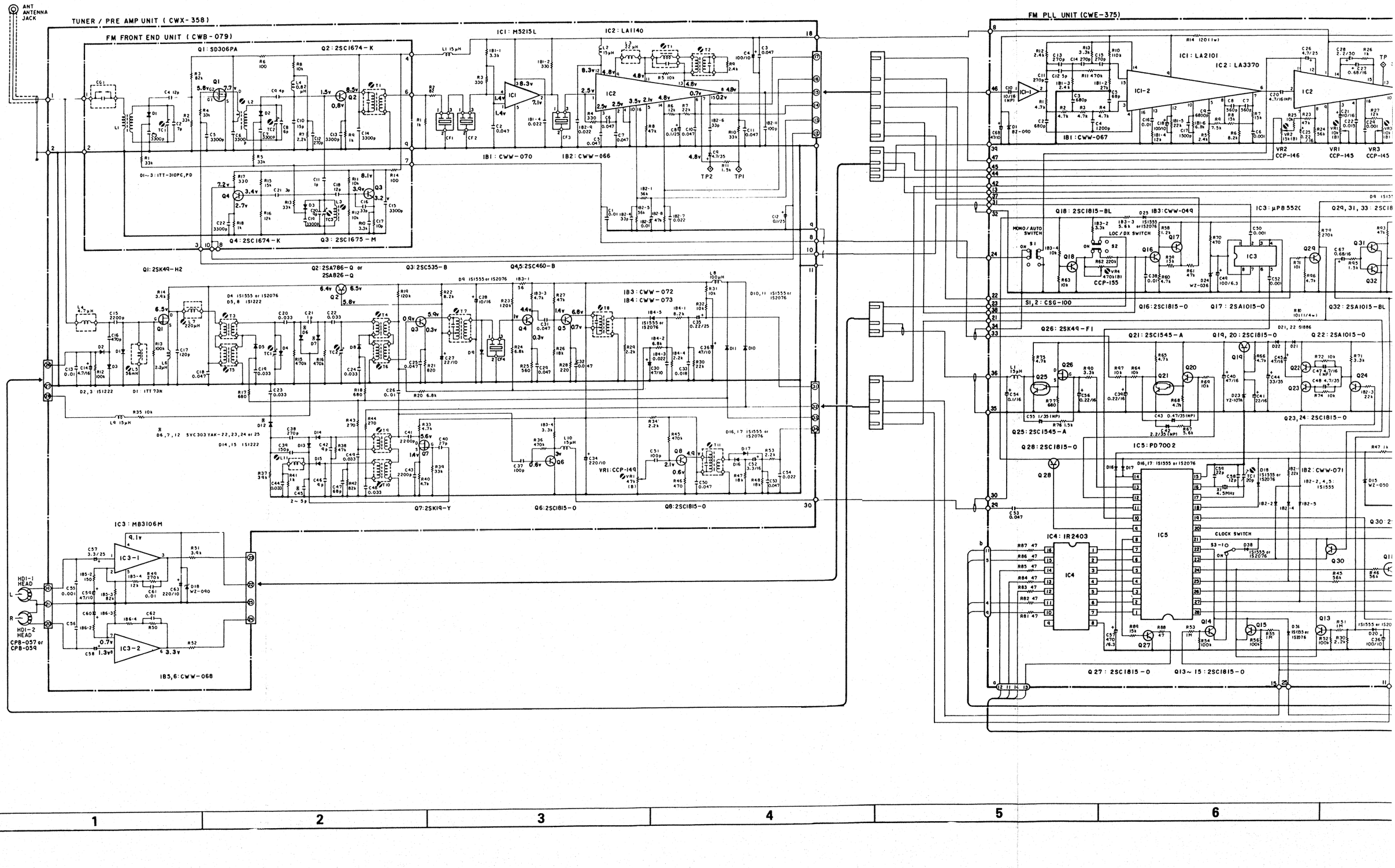
CI-3 FUI FUSE 0.5A E21-007 TO UN SWITCHED BATTERY

CI-4 TO AUTO ANTENNA

CI-5 90μH FU2 FUSE 2A E21-005 TO BATTERY +13.8V

Fig. 10

5. SCHEMATIC CIRCUIT DIAGRAM (KE-5300)



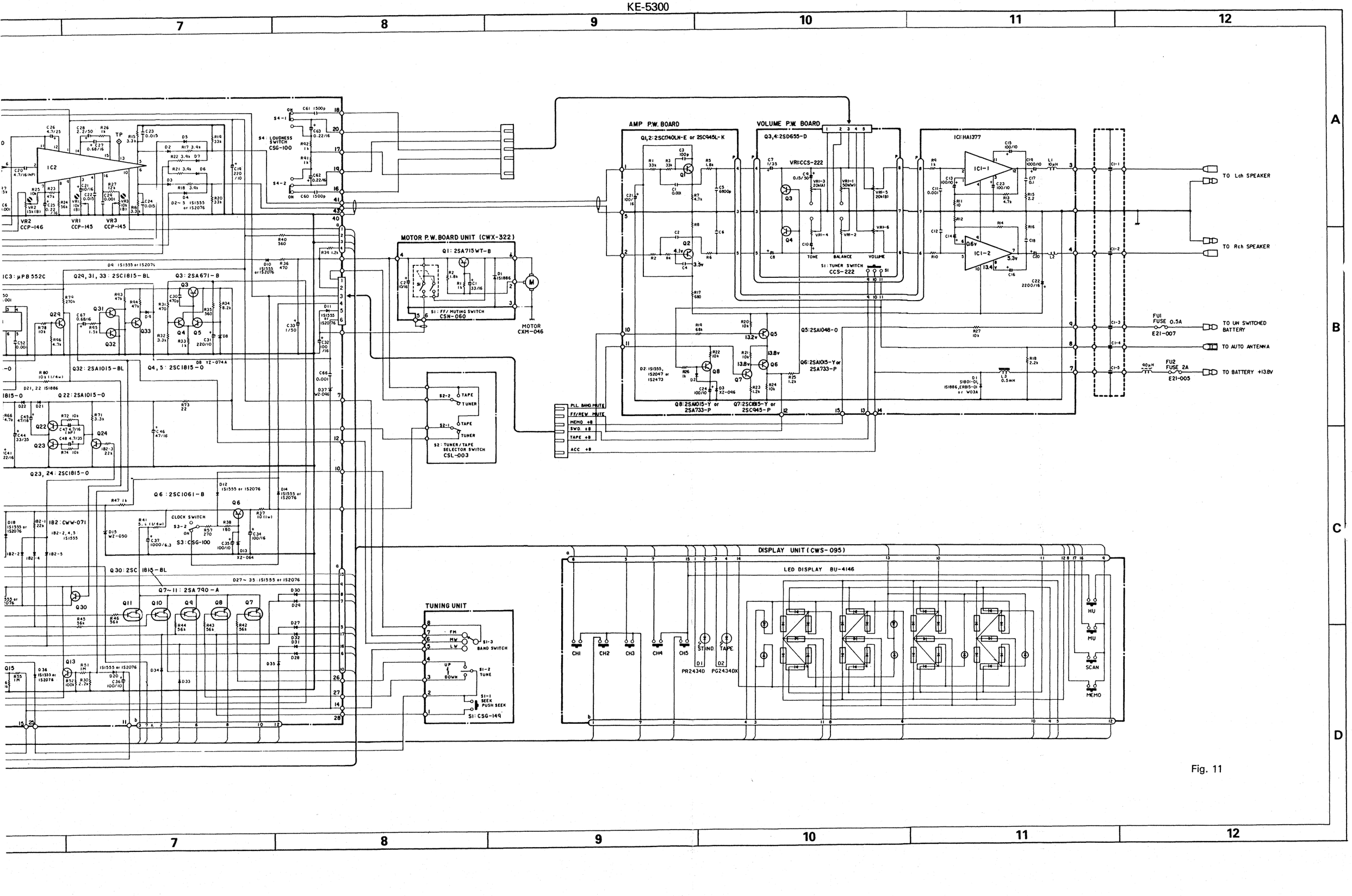
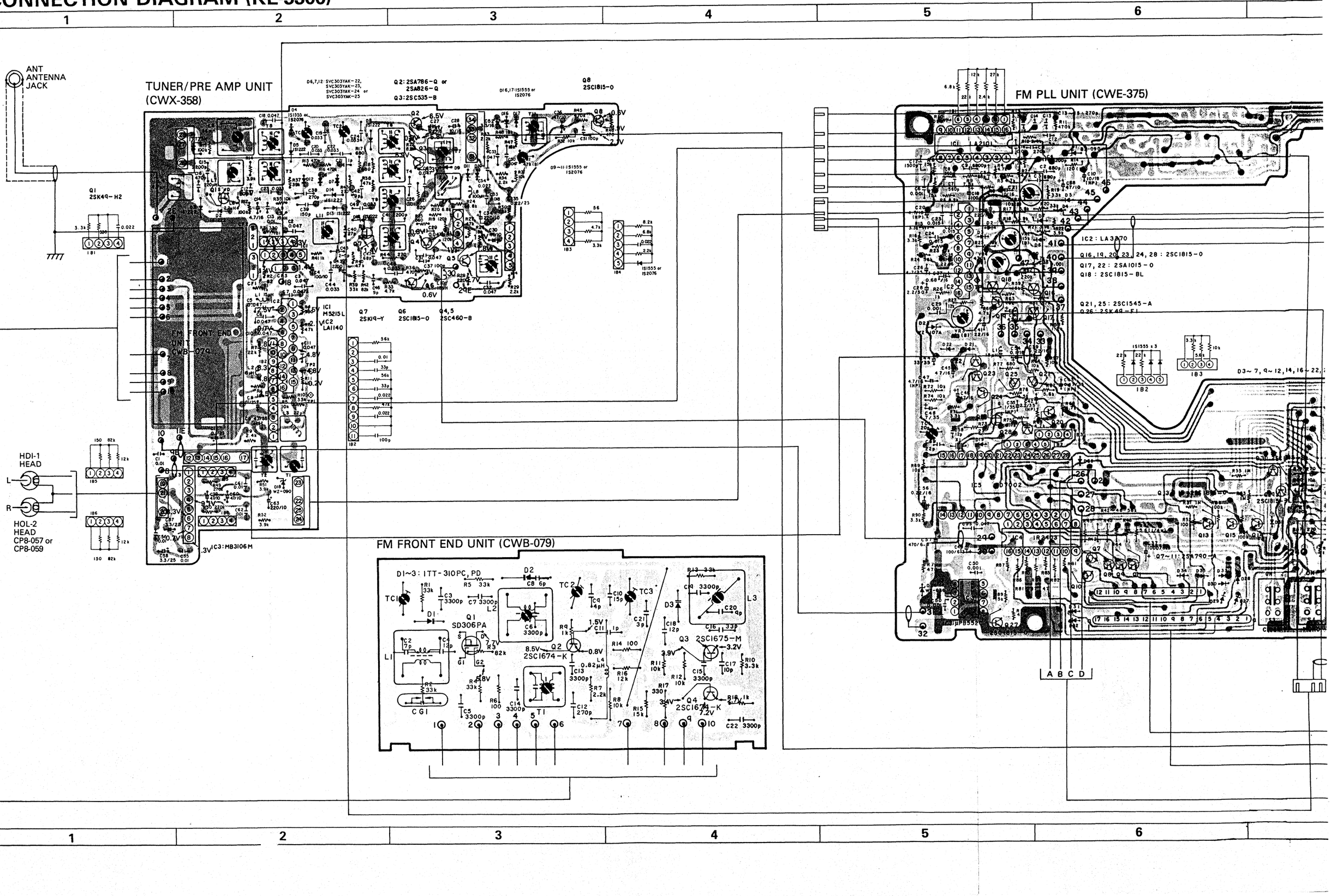

7
8
9
10
11
12
A
B
C
D
AMP P.W. BOARD
Q1,2:2SC740LN-E or 2SC945L-K
VOLUME P.W. BOARD
Q3,4:2SD655-D
VR1:CCS-222
IC1:HA1377
TO Lch SPEAKER
TO Rch SPEAKER
TO UN SWITCHED BATTERY
TO AUTO ANTENNA
TO BATTERY +13.8V
FU1 FUSE 0.5A E21-007
FU2 FUSE 2A E21-005
S1: TUNER SWITCH CCS-222
TONE
BALANCE
VOLUME
MOTOR P.W. BOARD UNIT (CWX-322)
Q1: 2SA715WT-B
S1: FF/MUTING SWITCH CSN-060
MOTOR CXM-046
S4: LOUDNESS SWITCH CSG-100
S2: TUNER/TAPE SELECTOR SWITCH CSL-003
S3: CSG-100
CLOCK SWITCH
TUNING UNIT
S1-3 BAND SWITCH
S1-2 TUNE
S1-1 SEEK PUSH SEEK
S1: CSG-149
DISPLAY UNIT (CWS-095)
LED DISPLAY BU-4146
CH1
CH2
CH3
CH4
CH5
ST/IND
TAPE
PR2434D
PG2434DX
HU
MU
SCAN
MEMO
PLL BAND MUTE
FF/REW MUTE
MEMO +B
SW0 +B
TAPE +B
ACC +B
VR2 CCP-146
VR1 CCP-145
VR3 CCP-145
IC2
IC3: μPB552C
Q6: 2SC1061-B
Q30: 2SC1815-BL
Q7~11: 2SA790-A
Q32: 2SA1015-BL
Q4,5: 2SC1815-0
Q23,24: 2SC1815-0
Q8: 2SA1015-Y or 2SA733-P
Q7: 2SC1815-Y or 2SC945-P
Q5: 2SA1048-0
Q6: 2SA1015-Y or 2SA733-P

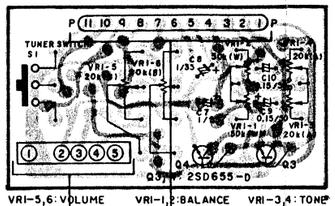
Fig. 11

6. CONNECTION DIAGRAM (KE-5300)

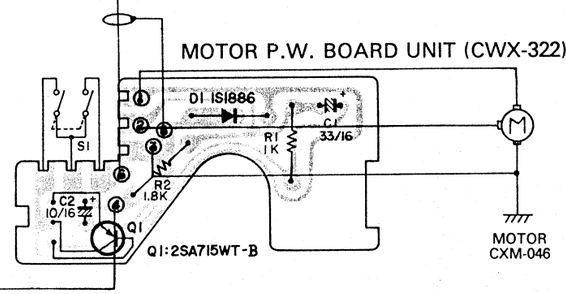


7	8	9	10	11	12

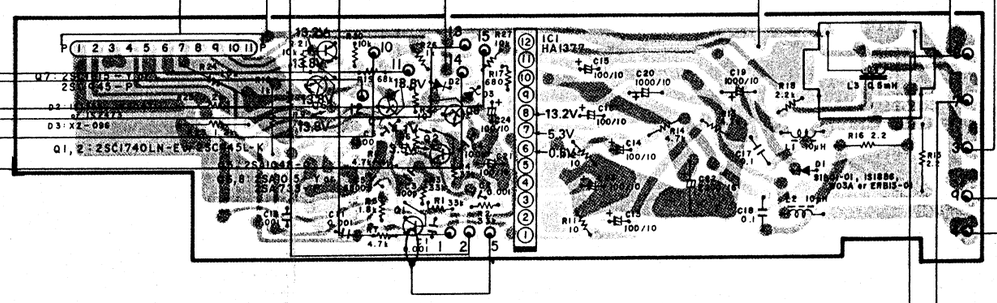
VOLUME P.W. BOARD

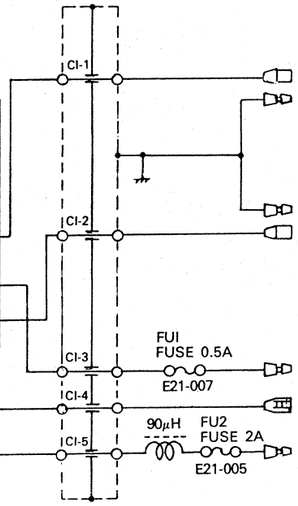


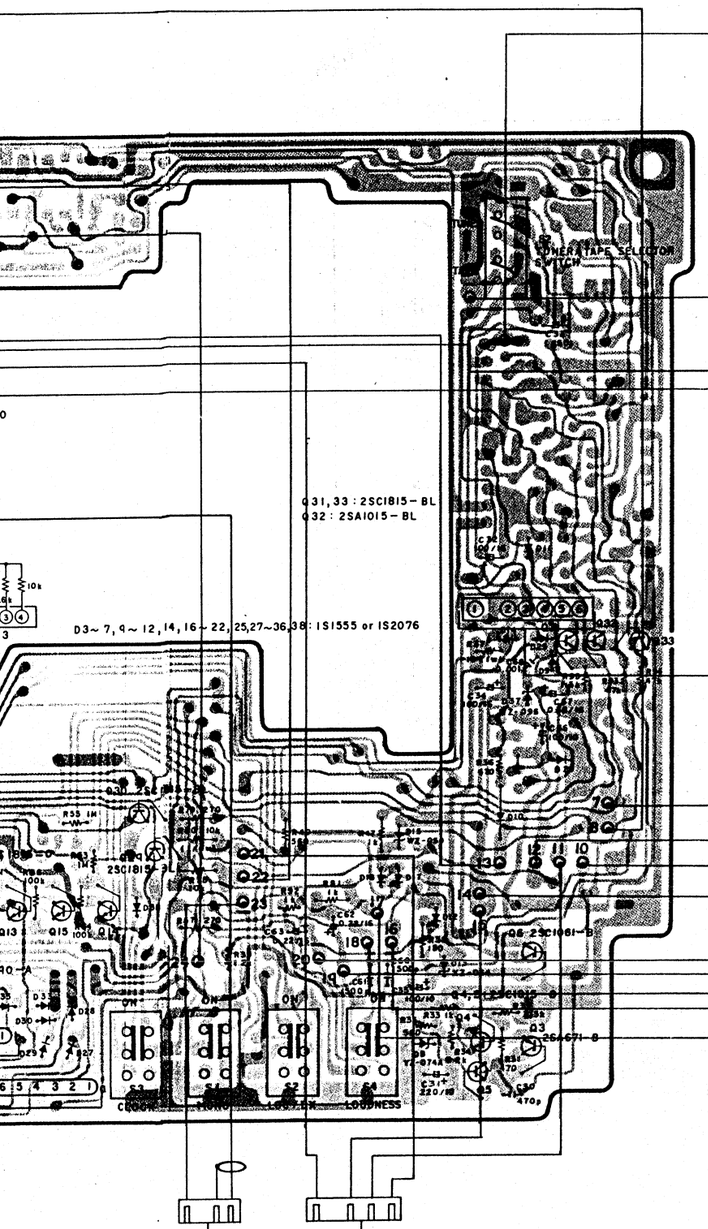
MOTOR P.W. BOARD UNIT (CWX-322)



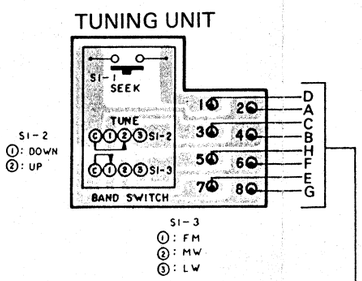
AMP P.W. BOARD



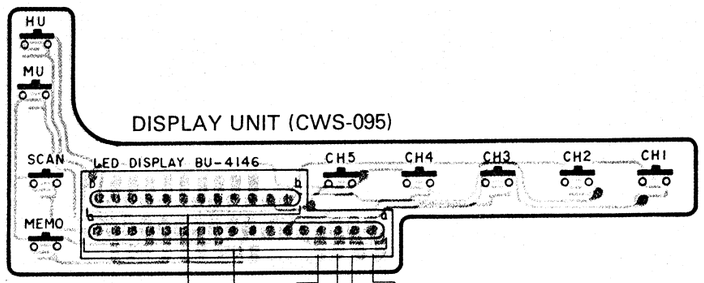




TUNING UNIT



DISPLAY UNIT (CWS-095)



D2 PG2434DX

D1 PR2434D

Fig. 12

7	8	9	10	11	12

7. CABINET EXPLODED VIEW

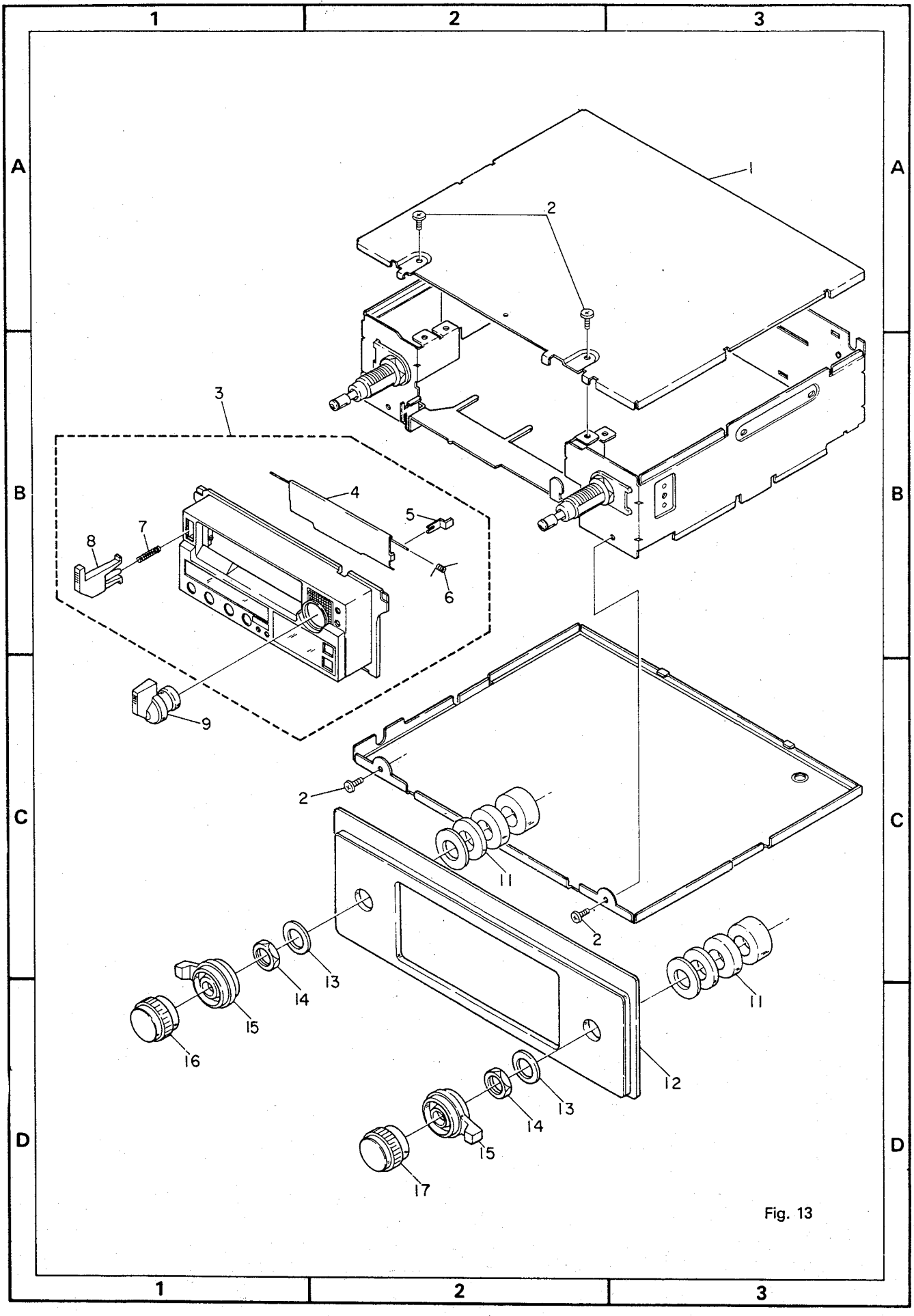


Fig. 13

8. CHASSIS EXPLODED VIEW

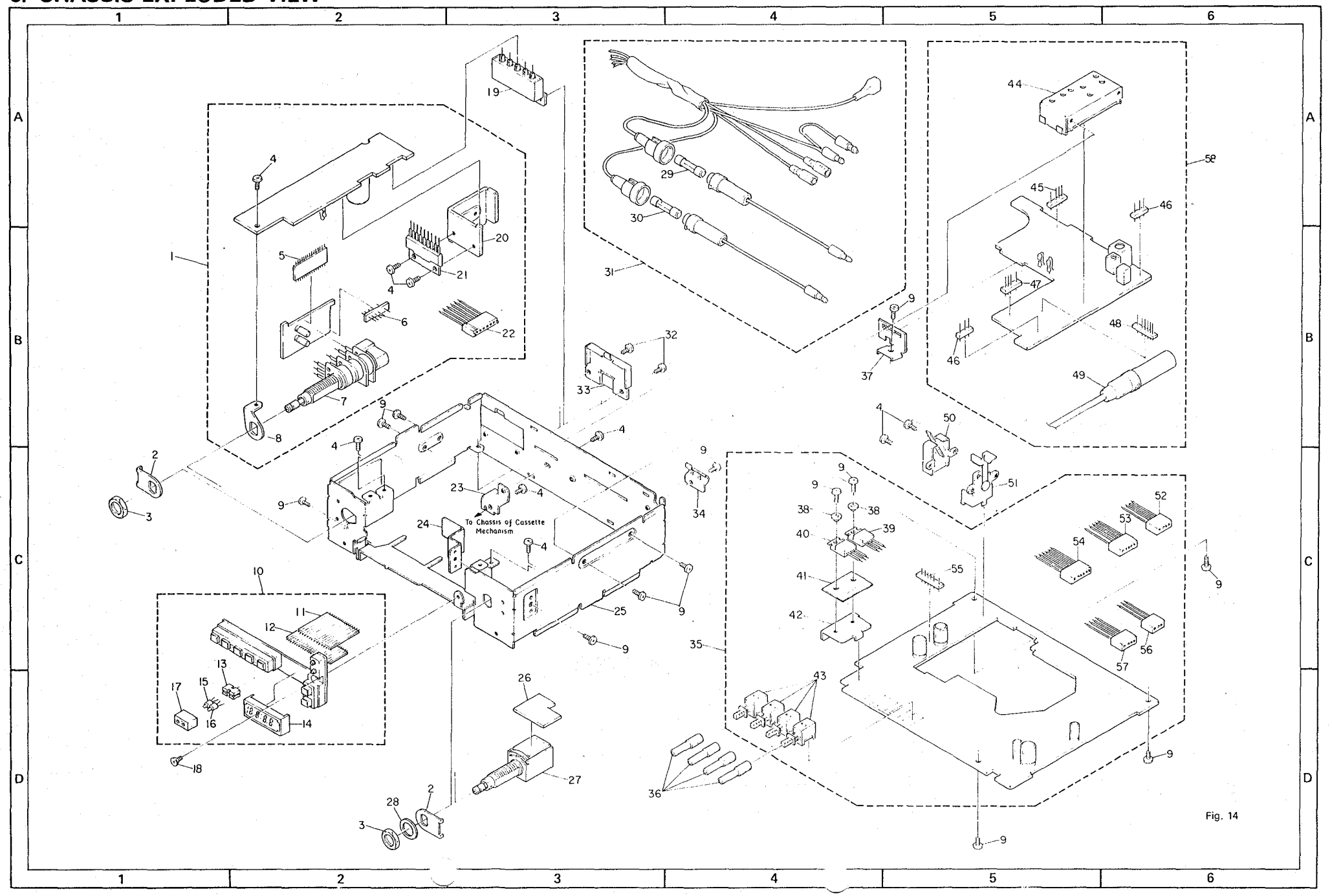


Fig. 14

10. PARTS LIST

NOTE:
When ordering resistors, first convert resistance values into code form as shown in the following examples.

Ex. 1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J = 5%, and K = 10%).

560Ω	*56×10¹*	*561*	*RD1/4PS 5 6 1 J*
47kΩ	*47×10³*	*473*	*RD1/4PS 4 7 3 J*
0.5Ω	*0R5*		*RN2H 0 R 5 K*
1Ω	*010*		*RS1P 0 1 0 K*

Ex. 2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62 kΩ 562×10¹ ..... RN1/4SR 5 6 2 1 F

- *Parts whose parts numbers are omitted are subject to being not supplied.*

FM PLL Unit (CWE-374) (KE-5000/E)
(CWE-375) (KE-5300/E)

MISCELLANEOUS

Part No.	Symbol & Description
LA2101	IC1
LA3370	IC2
μPB552C	IC3
IR2403	IC4
PD7002	IC5
2SB562	Q1 (KE-5000/E)
VACANT	Q1, Q2 (KE-5300/E)
2SC1815	Q2 (KE-5000/E)
2SC1815	Q4, Q5, Q16, Q18 – Q20, Q23, Q24, Q27 – Q29, Q31, Q33
2SA671	Q3
2SC1061	Q6
2SA790	Q7 – Q11
2SC1815 – O	Q12 (KE-5000/E)
VACANT	Q12 (KE-5300/E)
2SC1815-O	Q13, Q14
VACANT	Q15 (KE-5000/E)
2SC1815-O	Q15 (KE-5300/E)
2SA1015	Q17, Q22, Q32
2SC1545	Q21, Q25
2SK49-F1	Q26
2SC1815-BL	Q30
BZ-090	D1
1S1555 or 1S2076	D2 – D7, D9 – D12, D14, D16 – D18, D20, D25, D27 – D36, D38
YZ-074A	D8
YZ-064	D13
WZ-050	D15
1S1555 or 1S2076	D19 (KE-5000/E)
VACANT	D19 (KE-5300/E)
1S1886	D21, D22
YZ-107A	D23
WZ-036	D24
VACANT	D26
WZ-096	D37 (KE-5300/E)
CTF-016 or CTF-078 or CTF-099	L1 Ferri-Inductor, 15μH
CCG-030	TC1 Ceramic Trimmer, 20pF
CCP-145	VR1, VR3 Semi-fixed, 10kΩ(B)
CCP-146	VR2 Semi-fixed, 15kΩ(B)
CCP-155	VR4 Semi-fixed, 470kΩ(B)
CSS-021 or CSS-022	X1 Crystal
CSG-100	S1 – S4 Switch
CWW-067	IB1
CWW-071	IB2
CWW-069	IB3

RESISTORS

Part No.	Symbol & Description
RD1/4VM□□□J	R1 – R13, R15 – R27, R30 – R36, R38 – R40, R42 – R47, R51 – R54, R57 – R79, R81 – R97
RS1P□□□K	R14, R37
RD1/4VM□□□J	R28, R29 (KE-5000/E)
VACANT	R28, R29 (KE-5300/E)
RD1/4VS□□□J	R41
VACANT	R48
RD1/4VM□□□J	R49, R50 (KE-5000/E)
VACANT	R49, R50 (KE-5300/E)
VACANT	R55, R56 (KE-5000/E)
RD1/4VM□□□J	R55, R56 (KE-5300/E)
RD1/4PM□□□J	R80

PARTS LIST

CAPACITORS

Part No.	Symbol & Description
VACANT	C1
CKDSA681J50	C2, C3
CQMA122J50	C4
CKDSA680J50	C5
CKDSA102J50	C6
CKDSA561J50	C7, C8
CQMA682J50	C9
CEA100M16NP	C10
CKDSA271J50	C11, C13 – C15
CGDSL050D50L	C12
CQMA103J50	C16
CQMA152J50	C17
CEA101M10L	C18, C35
CEA221M10L	C19, C31
CEA4R7M16NP	C20, C47
CEA100M16L	C21
CQMA153K50	C22
CQMA153J50	C23, C24
CSYAR22K16SAN	C25, C39, C56, C62, C63
CEA4R7M25L	C26
CSYAR68M16SAN	C27, C67
CEA2R2M50LL	C28
CQSAH102J50	C29
CKDYB471K50L	C30
CEA101M16L	C32, C34
CEA010M50LL	C33
VACANT	C36 (KE-5000/E)
CEA101M10L	C36 (KE-5300/E)
CEA102M6.3L	C37
CKDBC103M25	C38
CEA470M16L	C40, C45, C46
CEA220M16L	C41
CEA2R2M35NP	C42
CEAR47M35NP	C43
CEA330M35L	C44
CEA4R7M35LL	C48
CEA101M6.3L	C49
CKDYB102K50L	C50, C52
VACANT	C51
CKDBC473M25	C53
CSYA0R1K16SAN	C54
CEA010M35NP	C55
CEA471M6.3L	C57
CCDCH120J50L	C58
CCDCH220J50L	C59
CQMA152K50	C60, C61
VACANT	C64, C65
VACANT	C66 (KE-5000/E)
CKDYB102K50L	C66 (KE-5300/E)
CEA470M10L	C68

Amp P.W. Board

MISCELLANEOUS

Part No.	Symbol & Description	
HA1377	IC1	
2SC1740LN or 2SC945L	Q1, Q2	
2SA1048	Q5	
2SA1015 or 2SA733	Q6, Q8	
2SC1815 or 2SC945	Q7	
SIB01-01 or 1S1886 or ERB15-01 or W03A	D1	
1S1555 or 1S2047 or 1S2473	D2	
XZ-096	D3	
CTH-035	L1, L2	Coil, 10μH
CTH-018	L3	Coil, 0.5mH

REISTORS

Part No.	Symbol & Description	
RD1/4VM□□□J	R1 – R8, R11 – R14, R17 – R22, R26, R27	
RD1/4PM□□□J	R9, R10, R15, R16, R23, R25	
CCN-068	R24	10kΩ

CAPACITORS

Part No.	Symbol & Description	
CKDYB102K50L	C1, C2, C11, C12	
CKDYB101K50L	C3, C4	
CQMA682J50	C5, C6	
CEA101M10L	C13 – C16, C23, C24	
CCG-064	C17, C18	0.1μF
CCH-057	C19, C20	1000μF/10V
CEA101M16L	C21	
CCH-050	C22	2000μF/16V or 2200μF/16V

PARTS LIST

Display Unit (CWS-095)

Part No.	Symbol & Description
BU-4146	LED Display
PR2434D	D1
PG2434DX	D2

Tuning Unit

Part No.	Symbol & Description	
CSG-149	S1	Switch

Motor P.W. Board Unit (CWX-322)

Part No.	Symbol & Description
2SA715WT	Q1
1S1886	D1
RD1/4PS□□□J	R1, R2
CEA330P16	C1
CEA100P16	C2

Volume P.W. Board

Part No.	Symbol & Description	
2SD655	Q3, Q4	
CCS-222	VR1/S1	Volume/Switch 50kΩ(W), 20kΩ(A), 20kΩ(B)
CEA010M35LL	C7, C8	
CEAR15M50LL	C9, C10	

FM Front End Unit (CWB-079)

Part No.	Symbol & Description	
SD306PA	Q1	
2SC1674	Q2, Q4	
2SC1675-M	Q3	
ITT-310PC or ITT-310PD	D1 – D3	
CTC-113	L1	Coil
CTC-116	L2	Coil
CTC-114	L3	Coil
CTF-015	L4	Ferri-Inductor, 0.82μH
CTC-117	T1	IF Transformer
CCG-038	TC1 – TC3	Ceramic Trimmer
CCL-068	CG1	Capacitor (with discharge gap)

Tuner/Pre Amp Unit (CWX-359) (KE-5000/E)

MISCELLANEOUS

Part No.	Symbol & Description	
M5215L	IC1	
LA1140	IC2	
MB3106M	IC3	
2SK49-H2	Q1	
2SA786 or 2SA826	Q2	
2SC535-B	Q3	
2SC460-B	Q4, Q5	
2SC1815	Q6, Q8	
2SK19-Y	Q7	
ITT73N	D1	
1S2222	D2, D3	
1S1555 or 1S2076	D4, D7, D9, D10	
SVC303YAK	*D5, *D6, *D8	
WZ-090	D11	
CTF-016	L1, L2	Ferri-Inductor, 15μH
CTC-119	L3	Coil, 22μH
CTB-091	L4	Coil, 4.7μH
CTB-069	L5	Coil, 56mH
CTB-081	L6	Coil, 2.2μH
CTF-108	L7	Coil, 220μH
T24-030	L8	Ferri-Inductor, 10μH
CTF-016	L9, L10	Ferri-Inductor, 15μH
CTC-120	T1	Coil
CTC-121	T2	Coil
CTB-072	T3	Coil, 210μH
CTB-073	T4	Coil, 210μH
CTE-109	T5	IF Transformer
CTE-110	T6	IF Transformer
CTB-080	T7	Coil, 120μH
CTE-111	T8	IF Transformer
CTF-101	CF1 – CF3	Ceramic Filter
CTF-126	CF4	Ceramic Filter
CCP-149	VR1	Semi-fixed, 47kΩ(B)
CCG-030	TC1, TC2	Ceramic Trimmer, 20pF
CWW-070	IB1	
CWW-066	IB2	
CWW-072	IB3	
CWW-073	IB4	
CWW-068	IB5, IB6	

RESISTORS

Part No.	Symbol & Description
RD1/4VM□□□J	R1 – R9, R12 – R27, R29 – R47
RD1/4PM□□□J	R10, R11, R28

PARTS LIST

CAPACITORS

Part No.	Symbol & Description
CKDBC103M25	C1, C13
CKDBC473M25	C2, C3, C5 – C7, C10, C11, C18 C24, C27, C29, C30, C43, C45
CEA101M10L	C4
CSYA0R1M25SAN	C8, C12
CEA4R7M35LL	C9
CSZA4R7M16	C14
CKDYB222K50L	C15, C41, C42
CKDYB471K50L	C16
CKDYB121K50L	C17
CQMA333K50	C19, C21, C22
CCDSL010C50	C20
CKDYD103M50L	C23
CEA220M10L	C25
CEA100M16L	C26
CEA470M10L	C28, C34, C53, C54
CQMA183M50	C31
CEA221M10L	C32, C57
CSYAR22M25SAN	C33
CKDYB101K50L	C35, C44
CCDPH271J50L	C36
CCDPH151J50L	C37
CCDXK270J50	C38
CCDXK090D50	C39
CCDCH060D50 or	*C40
CCDCH070D50 or CCDCH080D50 or CCDCH090D50	
VACANT	C46
CKDBC223M25	C47
CSZA3R3M16	C48
CKDYB102K50L	C49, C50
CEANL3R3M25L	C51, C52
CQMA103J50	C55, C56

Caution:
Diodes *D5, D6 and D8 and capacitor *C40 used mutually in the following assembly.

D5, D6, D8	C40
SVC303YAK-25	CCDCH060D50
SVC303YAK-24	CCDCH070D50
SVC303YAK-23	CCDCH080D50
SVC303YAK-22	CCDCH090D50

Tuner/Pre Amp Unit (CWX-358) (KE-5300/E)

MISCELLANEOUS

Part No.	Symbol & Description	
M5215L	IC1	
LA1140	IC2	
MB3106M	IC3	
2SK49-H2	Q1	
2SA786 or 2SA826	Q2	
2SC535-B	Q3	
2SC460-B	Q4, Q5	
2SC1815	Q6, Q8	
2SK19-Y	Q7	
ITT73N	D1	
1S2222	D2, D3, D5, D8, D13 – D15	
1S1555 or 1S2076	D4, D9 – D11, D16, D17	
SVC303YAK	*D6, *D7, *D12	
WZ-090	D18	
CTF-016	L1, L2	Ferri-Inductor, 15μH
CTC-119	L3	Coil, 22μH
CTB-091	L4	Coil, 4.7μH
CTB-069	L5	Coil, 56mH
CTB-081	L6	Coil, 2.2μH
CTF-108	L7	Coil, 220μH
T24-030	L8	Ferri-Inductor, 100μH
CTF-016	L9, L10	Ferri-Inductor, 15μH
CTB-071	L11	Coil, 1mH
CTC-120	T1	Coil
CTC-121	T2	Coil
CTB-072	T3	Coil, 210μH
CTB-073	T4	Coil, 210μH
CTB-074	T5, T6	Coil, 4.7mH
CTE-109	T7	IF Transformer
CTE-110	T8	IF Transformer
CTB-080	T9	Coil, 120μH
CTB-077	T10	Coil, 750μH
CTE-111	T11	IF Transformer
CTF-101	CF1 – CF3	Ceramic Filter
CTF-126	CF4	Ceramic Filter
CCP-149	VR1	Semi-fixed, 47kΩ(B)
CCG-030	TC1, TC2	Ceramic Trimmer, 20pF
CWW-070	IB1	
CWW-066	IB2	
CWW-072	IB3	
CWW-073	IB4	
CWW-068	IB5, IB6	

PARTS LIST

RESISTORS

Part No.	Symbol & Description
RD1/4VM□□□J	R1 – R9, R12 – R29, R31 – R53
RD1/4PM□□□J	R10, R11, R30

CAPACITORS

Part No.	Symbol & Description
CKDBC103M25	C1
CKDBC103M25	C2, C3, C5 – C7, C10, C11, C13
CEA101M10L	C4
CSYA0R1M25SAN	C8, C12
CEA4R7M35LL	C9
CSZA4R7M16	C14
CKDYB222K50L	C15, C41, C43
CKDYB471K50L	C16
CKDYB121K50L	C17
CKDBC473M25	C18, C25, C29, C31, C32, C50, C53
CQMA333K50	C19, C20, C22 – C24, C44, C48, C49
CCDSL010C50	C21
CKDYD103M50L	C26
CEA220M10L	C27
CEA100M16L	C28
CEA470M10L	C30, C36, C59, C60
CQMA183M50	C33
CEA221M10L	C34, C63
CSYAR22M25SAN	C35
CKDYB101K50L	C37, C51
CCDPH271J50L	C38
CCDPH151J50L	C39
CCDXK270J50	C40
CCDXK090D50	C42
CCDCH020D50 or	*C45
CCDCH030D50 or CCDCH040D50 or CCDCH050D50	
CCDPH090D50	C46
CCDPH080J50L	C47
CSZA3R3M16	C52
CKDBC223M25	C54
CKDYB102K50L	C55, C56
CEANL3R3M25L	C57, C58
CQMA103J50	C61, C62

Caution:
Diodes *D6, D7 and D12 and capacitor *C45 used mutually in the following assembly.

D6, D7, D12	C45
SVC303YAK-25	CCDCH020D50
SVC303YAK-24	CCDCH030D50
SVC303YAK-23	CCDCH040D50
SVC303YAK-22	CCDCH050D50

Miscellaneous Parts List

Part No.	Symbol & Description	
CPB-057 or CPB-059	HD1	Head
CXM-046	M	Motor
CSN-060	S1	Switch
CSL-003	S2	Switch
E21-007	FU1	Fuse, 0.5A
E21-005	FU2	Fuse, 2A
CCL-099	C1	Feed through Capacitor

Cabinet

Key No.	Part No.	Description
1.	CNB-591	Case
2.	BMZ30P050FMC	Screw
3.	CXC-108	Grille Unit
4.	CAT-099	Door
5.	CNE-045	Holder
6.	CBH-398	Spring
7.	CBH-399	Spring
8.	CAC-269	Button
9.	CAA-268	Knob
10.	CXC-112	Case Unit
11.	CNV-769	Washer
12.	CEA-352	Panel
13.	CND-646	FW10ø×1t
14.	CBN-028	N10ø×2t
15.	CAA-335	Knob
16.	CAA-336	Knob
17.	CAA-337	Knob

Chassis

Key No.	Part No.	Description
1.	CWH-124	Amp Assy
2.	CNE-837	Guide
3.	CBN-028	N10ø×2t
4.	BMZ30P050FMC	Screw
5.	CDE-784	Connector
6.	CKS-050	Plug
7.	CCS-222	Volume/Switch
8.		Holder
9.	BMZ26P050FMC	Screw
10.	CWS-095	Display Unit
11.	CDE-775	Connector
12.	CDE-776	Connector
13.		Guide
14.	BU-4146	LED Display
15.	PR2434D	LED

PARTS LIST

Key No.	Part No.	Description
16.	PG2434DX	LED
17.		Cap
18.	CMZ26P060FMC	Screw
19.	CCL-099	Feed Through Capacitor
20.		Heat Sink
21.	HA1377	IC
22.	CDE-785	Connector
23.		Bracket
24.		Shield Plate
25.		Frame Unit
26.		P.W. Board
27.	CSG-149	Switch
28.		Spacer
29.	E21-005	Fuse, 2A
30.	E21-007	Fuse, 0.5A
31.	CDE-487	Cord
32.	BMZ30P060FMC	Screw
33.	CNE-842	Cover
34.		Clamper
35.	CWE-374	FM PLL Unit (KE-5000)
	CWE-375	FM PLL Unit (KE-5300)
36.	CAA-332	Bitton
37.		Holder
38.		Insulating Bushing
39.	2SC1061	Transistor
40.	2SA671	Transistor
41.		Insulator
42.		Heat Sink
43.	CSG-100	Switch
44.	CWB-079	FM Front End Unit
45.	CKS-033	Plug, 3P (KE-5000)
	CKS-032	Plug, 4P (KE-5300)
46.	CKS-033	Plug, 3P
47.	CKS-032	Plug, 4P
48.	CKS-018	Plug, 6P
49.	CDH-058	Antenna Cable
50.	CSL-003	Switch
51.		Holder Unit
52.	CDE-778	Connector (Pre Amp)
53.	CDE-779	Connector (Loudness)
54.	CDE-780	Connector (FM)
55.	CKS-099	Plug
56.	CDE-777	Connector (Local/DX)
57.	CDE-781	Connector (AM) (KE-5000)
	CDE-782	Connector (AM) (KE-5300)
58.	CWX-359	Tuner/Pre Amp Unit (KE-5000)
	CWX-358	Tuner/Pre Amp Unit (KE-5300)

Packing Method

Key No.	Part No.	Description
1.	CRD-136	Owner's Manual (KE-5000) (English/French/German/Spanish)
	CRD-138	Owner's Manual (KE-5300) (English/French/German/Spanish)
2.	CRD-137	Owner's Manual (KE-5000) (Swedish/Norwegian/Dutch/-Italian)
	CRD-139	Owner's Manual (KE-5300) (Swedish/Norwegian/Dutch/-Italian)
3.	CHB-922	Styrofoam (1 set pair)
4.	CEA-403	Panel (KE-5000)
	CEA-404	Panel (KE-5300)
5.		Tag
6.		Polyethylene Bag
7.	CRG-015	Caution ord (KE-5000)
8.	CEA-444	Knob Kit
8-1.	CAA-337	Knob
8-2.	CAA-336	Knob
8-3.	CAA-335	Knob
9.	CEA-253	Holder Kit
9-1.	BMZ40P060FMC	Screw
9-2.	WHX0FMC	Washer
10.	CEA-300	Accessory Kit
10-1.	CNC-975	Strap
10-2.	CDE-437	Cord
10-3.	CNV-769	Washer
10-4.	CEA-215	Screw Kit
10-4-1.	CBA-028	Screw for Strap
10-4-2.	B70-055-A	WN4Ø×4.5t
10-4-3.	WS40FMC	Washer
10-4-4.	PMB50P200FMC	Screw
10-4-5.	B70-056-A	WN5Ø×5.3t
10-4-6.	CND-646	FW10ø×1t
10-4-7.	CBN-028	N10ø×2t
11.	CHB-920	Carton (KE-5000)
	CHB-921	Carton (KE-5300)